Upper Paradise Creek Sub-Watershed Potential Restoration Sites

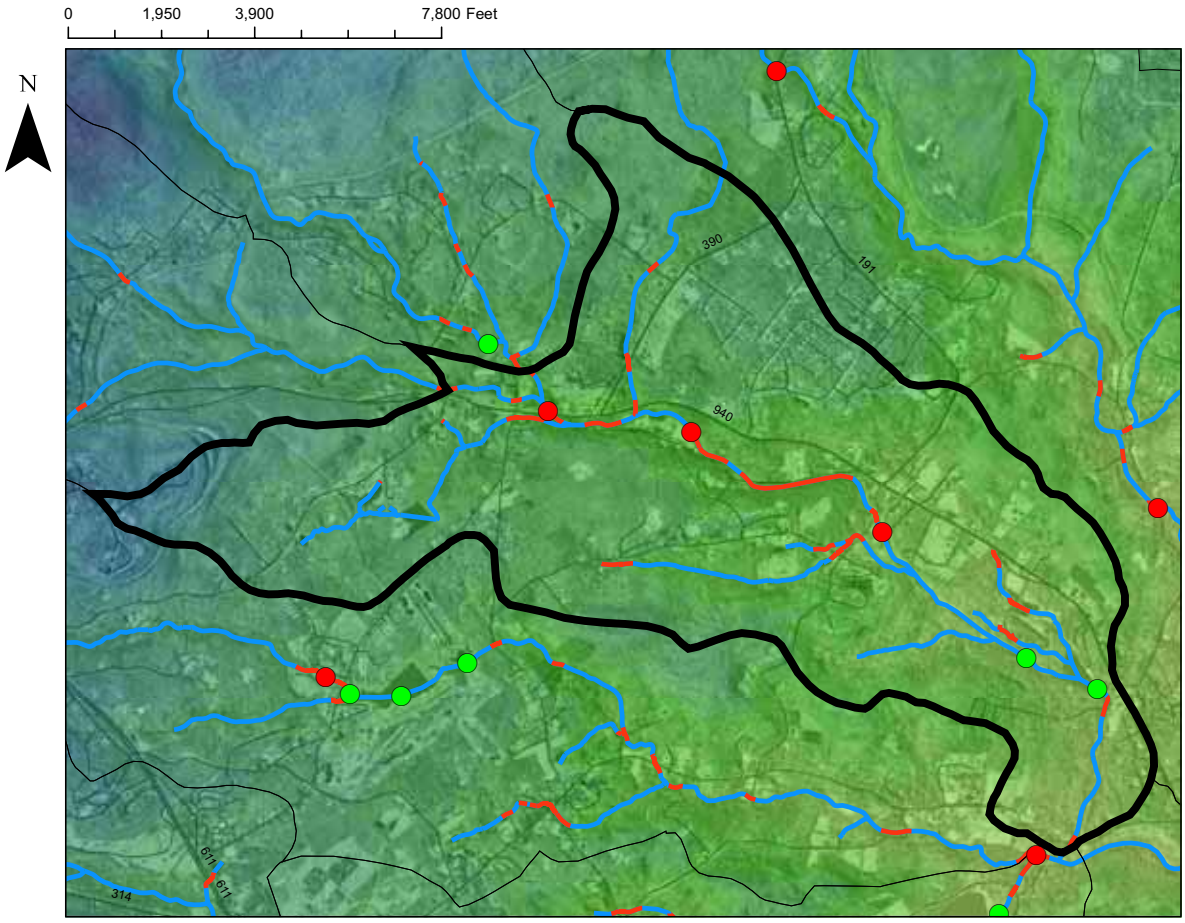

Figure 18 – Potential restoration sites in the Upper Paradise Creek sub-watershed. Sites were identified by means of topographic map examination; stream proximity within 150 feet of roads, bridges and culverts; aerial photo examination and field verification.

Restoration Projects

Road (3 red)

Observation	Action
1. Paradise Creek upstream to downstream of Red Rock Rd crossing – channel migration, incision, widening.	Large project - protect private property and stabilize up to 1 mile of stream.
2. Paradise Creek in vicinity of abandoned Pocono Gardens Resort – runoff, channelized, breached dam, road crossings.	Long channelized reach produces high energy downstream. Improve habitat, reduce energy, restore channel upstream of breached dam, create stormwater management plan, install BMPs.
3. Paradise Creek at Route 940 – road effects, runoff.	Address road runoff and runoff effects of stable.

Other (2 green)

Observation	Action
4. Paradise Creek at Crawford Lake dam – dam effects.	Install fish passage structure. Implement lake management recommendations.
5. Paradise Creek upstream of and entering Lake Crawford – channelization, sediment bar, wandering channel into lake.	Install sediment capture forebay, maintain regularly. Possible large restoration project to ½ mile upstream of lake.

Figure 19 – Upper Paradise Project 1: Paradise Creek from the vicinity of Red Rock Road to Lake Crawford. Previously channelized, this reach is now widening, forming meanders, and threatening private property. Note the telephone pole in background, once about 15 feet from the stream, is now about to be undermined. A more detailed assessment and restoration is recommended from Red Rock Road to Lake Crawford.

Figure 20 – Upper Paradise Project 2: Pocono Gardens Resort Site – upstream view of channelized section (above) and downstream view past breached dam (right).

Figure 21 - Crawford Lake dredging, December 2004: Once the lake is dredged, a sediment forebay could be created for future sediment capture and maintenance, and approximately ½ mile of upstream stabilization of Paradise Creek. Installation of a fish passage structure and additional habitat improvements are recommended. Left – Downstream view toward dam. Right – Upstream view of Paradise Creek entering Lake Crawford. Below – panoramic view of dredging project taken February 2005.